

IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1. (Original) A method for manufacturing an on-chip inductor comprises:
creating a dielectric layer; and
creating a conductive winding on the dielectric layer, wherein the conductive winding has a substantially square geometry, wherein corners of the conductive winding are geometrically shaped to reduce impedance of the on-chip inductor at an operating frequency.
2. (Original) The method of claim 1, wherein the creating of the conductive winding further comprises: creating the geometric shaping of the corners to include an interior angle per corner of approximately ninety degrees, and an exterior angle per corner of approximately one hundred thirty-five degrees.
3. (Original) The method of claim 1, wherein the creating of the conductive winding further comprises: creating the geometric shaping of the corners to include an interior angle per corner of approximately one hundred thirty-five degrees, and an exterior angle per corner of approximately one hundred thirty-five degrees.
4. (Original) The method of claim 1 further comprises: creating the conductive winding to have a spiral configuration, wherein the corners of the spiral configuration are geometrically shaped to reduce impedance of the on-chip inductor at the operating frequency.
5. (Original) The method of claim 1, wherein the creating of the conductive winding further comprises: creating a first winding on a first layer; creating a second winding on a second layer; and connecting the first winding to the second winding with at least one bridge.
6. (Original) The method of claim 1, wherein the creating of the conductive winding further comprises: creating the geometric shaping of the corners to include angled exterior corners, wherein at least one angle per exterior corner reduces current turbulence in the corner at the operating frequency.
7. (Original) The on-chip inductor of claim 6, wherein the creating of the conductive winding further comprises: creating the geometric shaping of the corners to include angled interior corners, wherein at least one angle per interior corner further reduces current turbulence in the corner at the operating frequency.